AK

	Application No.	Applicant(s)		
A	10/646,508	AOYAMA ET AL.		
Notice of Allowability	Examiner	Art Unit		
· ·	DiLinh Nguyen	2814		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due o	d course. <b>THIS</b>	
1. This communication is responsive to <u>1/10/05</u> .				
2. X The allowed claim(s) is/are <u>5-13</u> .				
3. X The drawings filed on 03 May 2004 are accepted by the Examiner.				
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received. been received in Application No		ion from the	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.   A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF				
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) including changes required by the Notice of Draftspers		948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of				
Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)	5 Motice of Informal P	Patent Application (PTC	D-152)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Notice of Informal Patent Application (PTO-152)  nterview Summary (PTO-413),		
	Paper No./Mail Da	Paper No./Mail Date 7.  Examiner's Amendment/Comment		
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	· —			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🖾 Examiner's Stateme	ent of Reasons for Allo	wance 1	
of Biological Material	9.	Way	Jan	
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Application/Control Number: 10/646,508

Art Unit: 2814

## **DETAILED ACTION**

## **REASONS FOR ALLOWANCE**

Claims 5-13 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record fail to disclose the combination of all the limitations recited, including the gas permeable film made of a porous insulation material; filling the gap with a gas having a thermal conductivity equal to or higher than three times that of air at 0°C through the gas permeable film into the gap (claim 5); forming a gas permeable film on the wiring and the filling layer, the gas permeable film being made of a porous insulation material; forming a gas impermeable film on the wirings and above gaps existing between the wirings, in a gas atmosphere having a thermal conductivity equal to or higher than three times that of air at 0°C (claim 8); and the gas permeable film being made of a porous insulating material; filling a gas having a thermal conductivity equal to or higher than three times that of air at 0°C through the gas permeable films into the gaps (claim 11).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2814

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (571) 272-1712. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DLN

HOAI PHAM
PRIMARY EXAMINER